

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY



(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference 21012272	FOR FURTHER ACTION		See Form PCT/IPEA/416
International application No. PCT/B2004/000969	International filing date (day/month/year) 31.03.2004 ✓	Priority date (day/month/year) 28.10.2003 ✓	
International Patent Classification (IPC) or national classification and IPC H04M1/725			
Applicant NOKIA CORPORATION ✓			
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of 5 sheets, including this cover sheet. ✓ 3. This report is also accompanied by ANNEXES, comprising: a. <input checked="" type="checkbox"/> sent to the applicant and to the International Bureau a total of 3 sheets, as follows: ✓ <input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).			
4. This report contains indications relating to the following items: <input checked="" type="checkbox"/> Box No. I Basis of the opinion <input type="checkbox"/> Box No. II Priority <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability <input type="checkbox"/> Box No. IV Lack of unity of invention <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement <input type="checkbox"/> Box No. VI Certain documents cited <input type="checkbox"/> Box No. VII Certain defects in the international application <input type="checkbox"/> Box No. VIII Certain observations on the international application			
Date of submission of the demand 28.05.2005 ✓		Date of completion of this report 24.11.2005	
Name and mailing address of the international preliminary examining authority:  European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016		Authorized Officer Pascual Vallés, E Telephone No. +31 70 340-1022 	

**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
PCT/IB2004/000969

Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This report is based on translations from the original language into the following language , which is the language of a translation furnished for the purposes of:

- ☐ international search (under Rules 12.3 and 23.1(b))
- ☐ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the **elements*** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):*

Description, Pages

1-20 as originally filed

Claims, Numbers

1-12 received on 18.08.2005 with letter of 16.08.2005

Drawings, Sheets

1/7-7/7 as originally filed

☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages
- ☐ the claims, Nos.
- ☐ the drawings, sheets/figs
- ☐ the sequence listing *(specify):*
- ☐ any table(s) related to sequence listing *(specify):*

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages
- ☐ the claims, Nos.
- ☐ the drawings, sheets/figs
- ☐ the sequence listing *(specify):*
- ☐ any table(s) related to sequence listing *(specify):*

* If item 4 applies, some or all of these sheets may be marked "superseded."

**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
PCT/IB2004/000969

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	1-12
	No: Claims	
Inventive step (IS)	Yes: Claims	
	No: Claims	1-12
Industrial applicability (IA)	Yes: Claims	1-12
	No: Claims	

2. Citations and explanations (Rule 70.7):

see separate sheet

Reference is made to the following documents:

- D1: WO 00/74350 A (ERICSSON TELEFON AB L M) 7 December 2000 (2000-12-07)
D2: WO 02/102035 A (ERICSSON TELEFON AB L M ; FROLOV SIGGE (SE);
GUSTAVSSON CARL (SE); JOE) 19 December 2002 (2002-12-19)
D3: WO 03/077504 A (NOKIA CORP ; NOKIA INC (US)) 18 September 2003 (2003-09-18)

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. The document D1 is regarded as being the closest prior art to the subject-matter of independent claim 1, and discloses (the references in parentheses applying to this document):

An accessory device (fig.2, ref.201) for a mobile telecommunications terminal (fig.2, ref.203), wherein the mobile telecommunications terminal comprises media processing circuitry adapted to provide media processing functionality in the mobile telecommunications terminal (fig.2, ref.215, 217, 219, 223, 225 and 227, page 12, lines 8-12, page 12, line 23-page 13, line 8) and means for coupling to the accessory device (fig.2, ref.207), the accessory device comprising:
media processing circuitry adapted to provide media processing functionality in the accessory device (fig.2, ref.105, 109, 229 and 231, page 12, lines 13-22);
coupling means adapted to establish a communication link between the accessory device and the mobile telecommunications terminal (fig.2, ref.205); and accessory interface circuitry adapted to transfer a message to the mobile telecommunications terminal via the coupling means, said message comprising a specification of at least a part of the media processing functionality provided by the accessory device media processing circuitry (fig.2, ref.211, page 14, lines 24-29).

- 1.1. The subject-matter of claim 1 differs from D1 in that the device is adapted to transfer a message to the mobile communications terminal comprising a command to the mobile communications terminal to disable the specified processing functionality in the media processing circuitry in the mobile telecommunications terminal.

- 1.2. The subject-matter of claim 1 is therefore new (Article 33(2) PCT).
- 1.3. Furthermore, the problem to be solved by the present invention is how to reduce the processing requirements in the mobile communications terminal when an accessory is connected.
- 1.4. The solution to this problem proposed in claim 1 of the present application can not be considered as involving an inventive step (Article 33(3) PCT). In D1, the microphone and loudspeaker of the mobile device, considered part of its media processing circuitry, are automatically disconnected when the accessory is connected (page 12, lines 10-15). Moreover, the settings of the mobile device, relating also to its media processing circuitry, are optimized according to the functionality and performance of the connected accessory (abstract, page 11, lines 23-26, page 15, lines 23-27). However, there is no message coming from the accessory to disable specified processing functionality of the mobile device, but an unique message of self-identifying information. This feature is merely one of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, in order to solve the problem posed.
2. The same reasoning applies, *mutatis mutandis*, to the subject-matter of the corresponding independent method claim 7 which therefor is also considered not inventive.
3. Dependent claims 2-6 and 8-12 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, see documents D1-D3 and the corresponding passages cited in the search report.
4. The subject-matter of claims 1-12 relates to an accessory device for a mobile telecommunications terminal and has an industrial application.

CLAIMS

1. An accessory device for a mobile telecommunications terminal, wherein the mobile telecommunications terminal comprises media processing circuitry adapted to provide media processing functionality in the mobile telecommunications terminal and means for coupling to the accessory device, the accessory device comprising:
- media processing circuitry adapted to provide media processing functionality in the accessory device;
- coupling means adapted to establish a communication link between the accessory device and the mobile telecommunications terminal; and
- accessory interface circuitry adapted to transfer a message to the mobile telecommunications terminal via the coupling means, said message comprising a specification of at least a part of the media processing functionality provided by the accessory device media processing circuitry,
- wherein the device is adapted to transfer a message to the mobile communications terminal comprising a command to the mobile communications terminal to disable the specified processing functionality in the media processing circuitry in the mobile telecommunications terminal.
2. A device according to claim 1, wherein the accessory interface circuitry is adapted to receive a request, from the mobile telecommunications terminal, for a transfer of the message before transferring the message to the mobile communications terminal.
3. A device according to any preceding claim, comprising media transferring circuitry for transferring media data between the accessory device and the mobile telecommunications terminal.

4. A device according to claim 3, wherein the media transferring circuitry is adapted to transfer audio data, video data or image data.

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5. A device according to any preceding claim, wherein the media processing circuitry is adapted to perform an echo-canceling algorithm.

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6. A device according to any preceding claim, wherein the media processing circuitry is adapted to perform a frequency equalizing algorithm.

7. A method for providing media processing capabilities for a mobile telecommunications terminal, the method comprising the steps of:

coupling an accessory device with media processing capabilities to the mobile telecommunications terminal; transferring a message from the accessory device to the mobile telecommunications terminal via said coupling, said message comprising a specification of at least a part of the media processing functionality provided by the accessory device,

wherein the message comprises a command to the mobile communications terminal to disable the specified processing functionality in the media processing circuitry in the mobile telecommunications terminal.

8. A method according to claim 7, wherein the accessory interface circuitry receives a request, from the mobile telecommunications terminal, for a transfer of the message before transferring the message to the mobile communications terminal.

9. A method according to any of claims 7-8, wherein the accessory device transfers media data which is

processed in the accessory device in accordance with the specified processing functionality

10. A method according to any of claims 7-9, wherein
5 the transferred media is audio data, video data or image data.

11. A method according to any of claims 7-10,
wherein the media processing in the accessory device
10 comprises an echo-canceling algorithm.

12. A method according to any of claims 7-11,
wherein the media processing in the accessory device
comprises a frequency equalizing algorithm.
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